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Search Results - Record(s) 1 through 4 of 4 returned.☐ 1. Document ID: US 20020082395 A1

L13: Entry 1 of 4

File: PGPB

Jun 27, 2002

DOCUMENT-IDENTIFIER: US 20020082395 A1

TITLE: Opsonic and protective monoclonal and chimeric antibodies specific for lipoteichoic acid of gram positive bacteria

Detail Description Paragraph:

[0038] As noted above, the cell walls of Gram positive bacteria characteristically contain peptidoglycans such as murein as well as teichoic acids. Teichoic acids are polymers of either glycerol phosphate or ribitol phosphate with various sugars, amino sugars, and amino acids as substituents. Although the lengths of the chains and the nature and location of the substituents vary from species to species and sometimes between species, in general teichoic acids make up a major part of the cell wall. The teichoic acids related to this invention are lipoteichoic acids which are teichoic acids made up of glycerol phosphate which is primarily linked to a glycolipid in the underlying cell membrane. Although the precise structure of LTA in the Gram positive bacterial cell wall is not known, a standard schematic representation commonly accepted in the art is set forth in FIG. 1. Accordingly, the antibodies of the claimed invention are broadly reactive because they recognize and bind to the lipoteichoic acids that are characteristically surface exposed on Gram positive bacteria.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences		Claims	KMC	Draw D
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☐ 2. Document ID: US 6939543 B2

L13: Entry 2 of 4

File: USPT

Sep 6, 2005

DOCUMENT-IDENTIFIER: US 6939543 B2

**** See image for Certificate of Correction ****

TITLE: Opsonic and protective monoclonal and chimeric antibodies specific for lipoteichoic acid of gram positive bacteria

Detailed Description Text (4):

As noted above, the cell walls of Gram positive bacteria characteristically contain peptidoglycans such as murein as well as teichoic acids. Teichoic acids are

polymers of either glycerol phosphate or ribitol phosphate with various sugars, amino sugars, and amino acids as substituents. Although the lengths of the chains and the nature and location of the substituents vary from species to species and sometimes between species, in general teichoic acids make up a major part of the cell wall. The teichoic acids related to this invention are lipoteichoic acids which are teichoic acids made up of glycerol phosphate which is primarily linked to a glycolipid in the underlying cell membrane. Although the precise structure of LTA in the Gram positive bacterial cell wall is not known, a standard schematic representation commonly accepted in the art is set forth in FIG. 1. Accordingly, the antibodies of the claimed invention are broadly reactive because they recognize and bind to the lipoteichoic acids that are characteristically surface exposed on Gram positive bacteria.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 3. Document ID: US 6610293 B1

L13: Entry 3 of 4

File: USPT

Aug 26, 2003

DOCUMENT-IDENTIFIER: US 6610293 B1

**** See image for Certificate of Correction ****

TITLE: Opsonic and protective monoclonal and chimeric antibodies specific for lipoteichoic acid of gram positive bacteria

Detailed Description Text (4):

As noted above, the cell walls of Gram positive bacteria characteristically contain peptidoglycans such as murein as well as teichoic acids. Teichoic acids are polymers of either glycerol phosphate or ribitol phosphate with various sugars, amino sugars, and amino acids as substituents. Although the lengths of the chains and the nature and location of the substituents vary from species to species and sometimes between species, in general teichoic acids make up a major part of the cell wall. The teichoic acids related to this invention are lipoteichoic acids which are teichoic acids made up of glycerol phosphate which is primarily linked to a glycolipid in the underlying cell membrane. Although the precise structure of LTA in the Gram positive bacterial cell wall is not known, a standard schematic representation commonly accepted in the art is set forth in FIG. 1. Accordingly, the antibodies of the claimed invention are broadly reactive because they recognize and bind to the lipoteichoic acids that are characteristically surface exposed on Gram positive bacteria.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 5139933 A

L13: Entry 4 of 4

File: USPT

Aug 18, 1992

DOCUMENT-IDENTIFIER: US 5139933 A

TITLE: Assay method for detecting listeria

Detailed Description Text (44):

U.S. Pat. No. 4,556,769 noted above describes an assay method using **monoclonal antibodies** to peptidoglycan. However, the present invention importantly uses as the final detection step the use of labeled **antibodies** against **teichoic acid**. Since there are approximately 30 **ribitol** units per (TA) molecule, and between an equal number and four times the number of (PEP) disaccharide-peptide repeating units as (TA) molecules in each listeriae cell, the assay of the invention permits targeting of about 8 to 30 times as many antigenic sites, thereby enhancing assay sensitivity. Using the (TA) moiety of the PEP-TA complex as the labeled **antibodies** target also allows for Listeria strain identification, and thus pathogenic vs. nonpathogenic Listeria. This would not be possible if (PEP) alone were used to assay for Listeria strains. In fact Listeria strain identification is not possible if only cell wall (PEP) is used for a target as other gram positive and most gram negative bacteria share the same (PEP) chemical structure as Listeria (Schleifer, K. H. and Kandler, O., (1972) Bacteriological Reviews, 36, p. 404-477). Therefore, the antigenic epitopes are essentially the same.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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